



HSSD H13-MOD

HIGH HOT-STRENGTH HOT WORKING DIE STEEL

Introduction

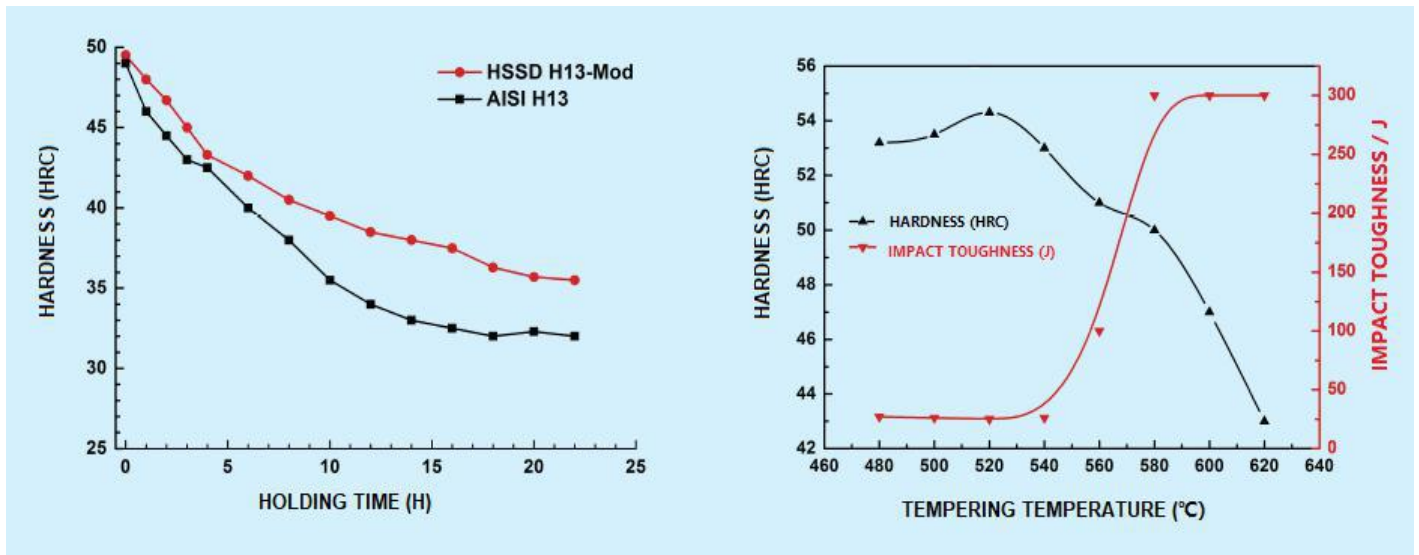
As modified hot work die steel with high roughness and high strength, HSSD H13 steel has good thermal stability and thermal fatigue resistance. It can displace imported senior high quality hot work die steel such as AISI H13, 1.2344, ASSAB 8407, etc.

Chemical properties

Steel Grade	C	Si	Mn	P	S	Cr	Mo	V
HSSD H13-Mod	0.30~0.40	1.20~1.60	0.30~0.50	≤0.015	≤0.003	3.50~4.50	0.80~1.20	0.80~1.00

Features

- High resistance of tempering softening properties (the using temperature can improve 50°C comparing with H13 steel).
- Excellent Thermal Stability: under long time preservation of 620°C, the hardness is always higher than that of H13, and still maintain above 35HRC.
- High thermal fatigue resistance: better than that of H13 steel.
- Performance curve of tempering and CCT curve (continuous cooling transformation).





Recommend Heat Treatment

Heating Temperature/°C			Cooling Way	Hardness (HRC)	Tempering Temperature/°C	Tempering Numbers	Hardness (HRC)
First Preheating	Second Preheating	Last Heating					
500~600	820~860	1010~1060	Oil Cooling	53~55	560~600	2~3	47~50